

DATA SHEET

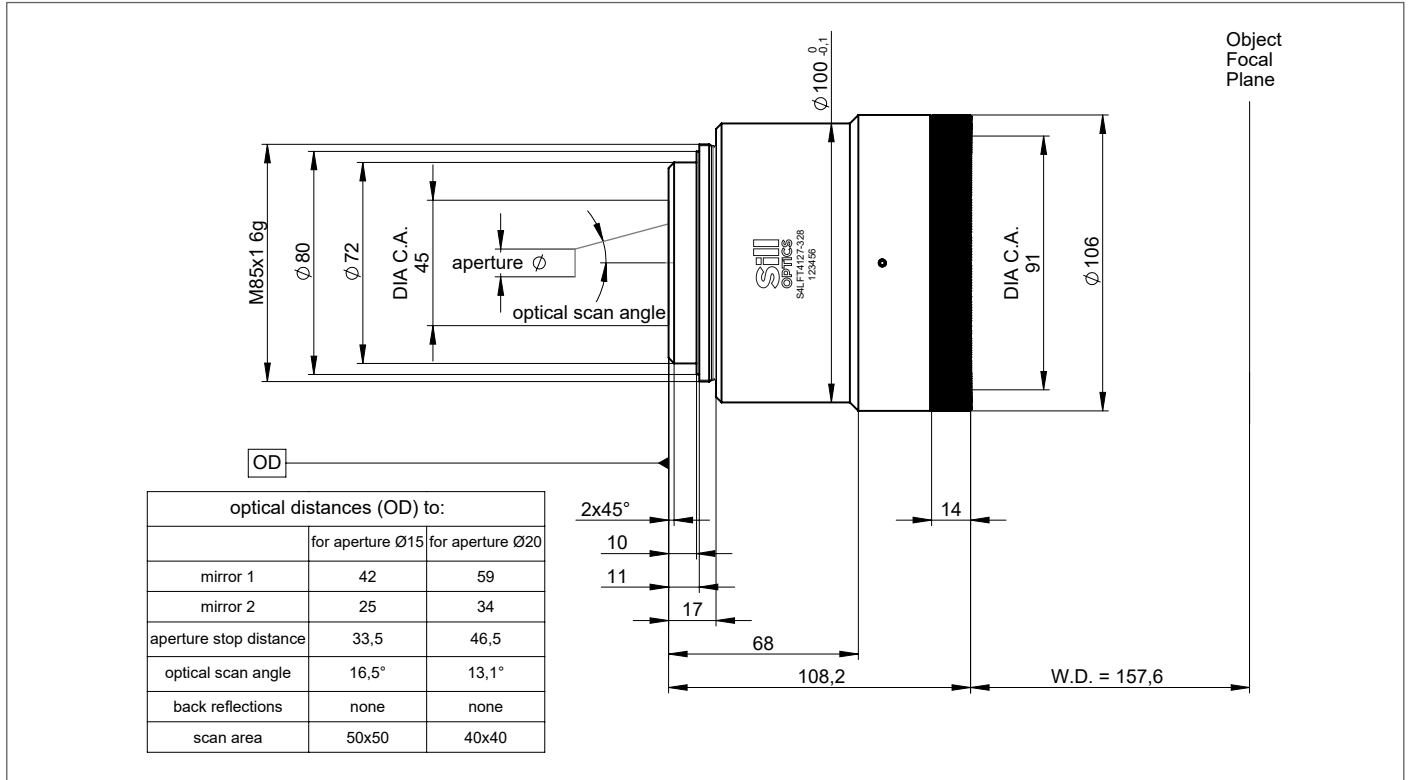
S4LFT4127-328

F-THETA
TELECENTRIC - FUSED SILICA
1030 - 1090nm



ILLUSTRATION ONLY

OUTLINE DRAWING



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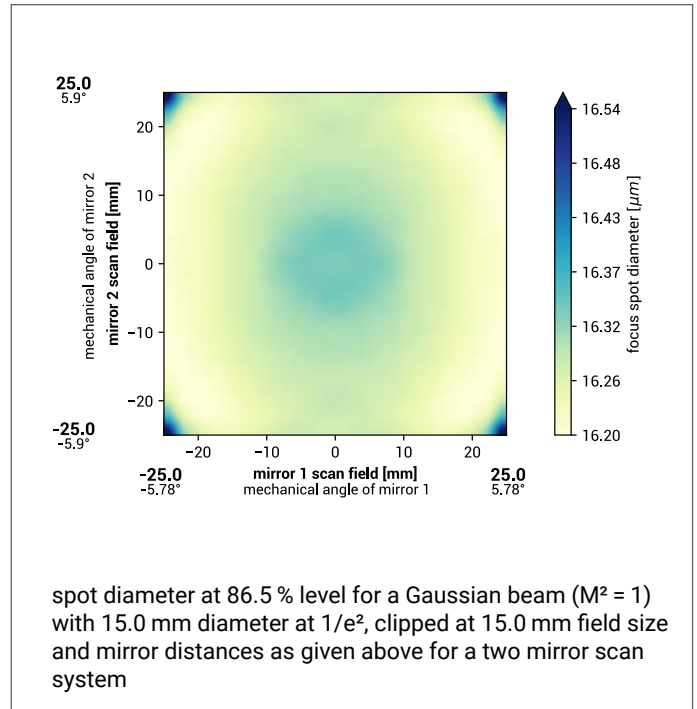
Sill Optics GmbH · Johann-Höllfritsch-Straße 13 · D-90530 Wendelstein · +49 9129 9023-0 · Published: 24.07.2023

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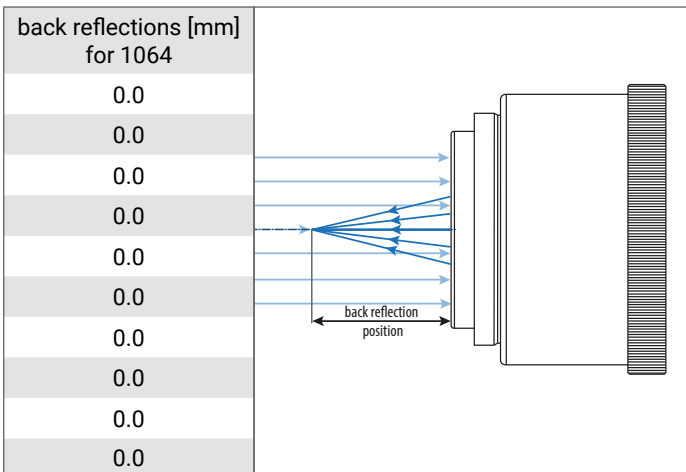
SPECIFICATIONS

article number	S4LFT4127-328	
design wavelength [nm]	1064	
effective focal length [mm]	125.4	
max. entrance beam-Ø [mm]	15.0	20.0
aperture stop distance [mm]	33.5	46.5
working distance [mm]	157.6	157.6
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1	50 x 50 25.0 / 42.0	40 x 40 34.0 / 59.0
max. telecentricity error [°]	1.5	1.5
total transmission [%]	> 97	
lens material	fused silica	
LIDT (coating)	5.0 J/cm ² per 1ns pulse at 50Hz	
SP and USP usable	yes	
weight [kg]	1.3	
cover glass	S4LPG2250-328	
absorption [ppm]	104	
cleanliness	not specified	

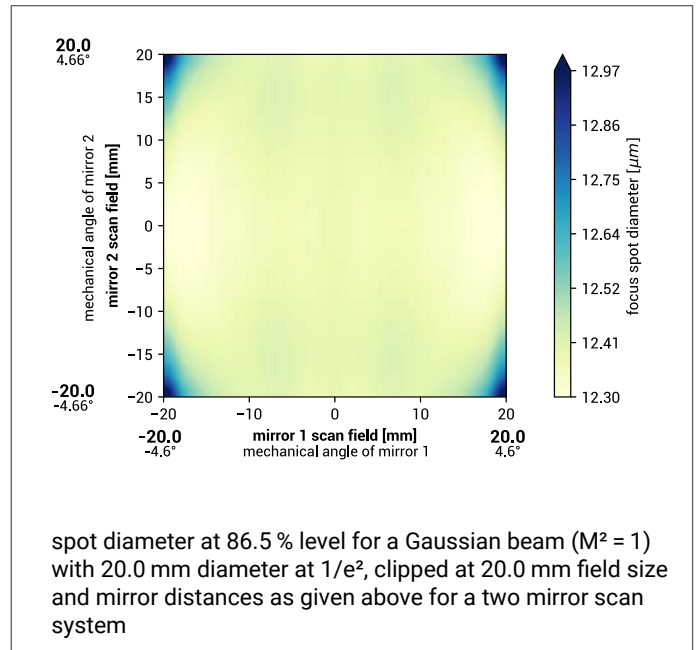
SPOT FOR 15.0mm BEAM DIAMETER



BACK REFLECTION POSITION



SPOT FOR 20.0mm BEAM DIAMETER



REMARKS

The stated values are based on a vignetting of less than 1 %.

Effective focal length and working distance have tolerance of +/- 1.5 %.

Absorption tolerance +/- 25 %. Absorption may increase. Correct cleaning establishes original condition.

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